



Sheet 1 of 3

SUBSTITUTE FORM PTO-1449 (MAY 1998 EDITION) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	Attorney Docket No.	50320/002004
	Serial No.	10/715,867
	Applicant	Jeffrey A. Hubbell et al.
	Filing Date	November 17, 2003
	Group	1651
	IDS Filed	March 19, 2007
	Customer No.	21559

U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
JKA	4,741,872	May 3, 1988	De Luca et al.			
	4,804,691	Feb. 14, 1989	English et al.			
	4,898,734	Feb. 6, 1990	Mathiowitz et al.			
	5,149,543	Sept. 22, 1992	Cohen et al.			
	5,232,984	Aug. 3, 1993	Hubbell et al.			
	5,232,701	Oct. 12, 1993	Jarrett et al.			
	5,320,624	Jun. 14, 1994	Kaplan et al.			
	5,380,536	Jan. 10, 1995	Hubbell et al.			
	5,410,016	Apr. 25, 1995	Hubbell et al.			
	5,462,990	Oct. 31, 1996	Hubbell et al.			
	5,529,914	Jun. 25, 1996	Hubbell et al.			
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	5,567,440	Oct. 22, 1996	Hubbell et al.			
	5,573,934	Nov. 12, 1996	Hubbell et al.			
	5,595,971	Jan. 21, 1997	Mitchell			
	5,626,863	May 6, 1997	Hubbell et al.			
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	5,631,015	May 20, 1997	Bezwada et al.			
	5,654,007	Aug. 5, 1997	Johnson et al.			
	5,763,371	Apr. 7, 1998	Samain et al.			
JKA	5,753,219	May 19, 1998	Cleland et al.			

EXAMINER <i>Julius K. Wey</i>	DATE CONSIDERED <i>6-22-07</i>
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

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U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
DAW	6,303,148 B1	Oct. 16, 2001	Hennink et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
DAW	WO 92/06678	Apr. 30, 1992	WIPO			
✓	WO 93/16687	Sep. 2, 1993	WIPO			
✓	WO 93/17669	Sep. 16, 1993	WIPO			
	WO 95/31479	Nov. 23, 1995	WIPO			
	WO 96/11671	Apr. 25, 1996	WIPO			
	WO 96/29370	Sept. 26, 1996	WIPO			
	WO 96/32149	Oct. 17, 1996	WIPO			
✓	WO 97/05185	Feb. 13, 1997	WIPO			
	WO 97/41833	Nov. 13, 1997	WIPO			
	WO 97/44013	Nov. 27, 1997	WIPO			
DAW	WO 98/22093	May 28, 1998	WIPO			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
DAW	Clark et al., "Long-acting Growth Hormones Produced by Conjugation with Polyethylene Glycol," The Journal of Biological Chemistry 271(36):21969-21977 (1996)					
S	Cleveland, "Protein Delivery from Biodegradable Microspheres," Pharmaceutical Biotechnology, Chapter 1, Protein Delivery Physical Systems (Sanders and Hendren, eds.) Plenum Press, New York pgs. 1-43 (1997)					
DAW	Gonda, "Aerosols for Delivery of Therapeutic and Diagnostic Agents to the Respiratory Tract," Critical Reviews in Therapeutic Drug Carrier Systems 6(4):273-313 (1990)					

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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
Jaw	Hill-West et al., "Inhibition of thrombosis and intimal thickening by <i>in situ</i> photopolymerization of thin hydrogel barriers," Proc. Natl. Acad. Sci. 91:5967-5971 (1994)
	Hubbell, "Hydrogel systems for barriers and local drug delivery in the control of wound healing," Journal of Controlled Release 39:305-313 (1996)
	Hubbell, "Biomaterials in Tissue Engineering," Biotechnology 13:565-576 (1995).
	Johnson et al., "A month-long effect from a single injection of microencapsulated human growth hormone," Nature Medicine 2(7):795-799 (1996).
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•	Kim et al., "Drug Release from Biorodible Hydrogels Composed of Poly-Epsilon-Caprolactone/Poly (Ethylene Glycol) Macromer Semiinterpenetrating Polymer Networks" Archives of Pharmacol Research, Natl., Fisheries Universities 18:18-21 (1995).
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•	Sawhney et al., "Bioerodible Hydrogels Based on Photopolymerized Poly(ethylene glycol)-co-poly(α -hydroxy acid) Diacrylate Macromers," Macromolecules 26(4):581-587 (1993).
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• Jaw	European Search Report mailed January 18, 2005 (EP 04 02 9002).

EXAMINER <i>Jubuh Kwan</i>	DATE CONSIDERED <i>6-21-07</i>
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